CLAIMS

WHAT IS CLAIMED IS:

1	1.	A process for forming a drag reducing agent comprising a polyalphaolefin and at least one	
2	alpha olefin monomer partitioning agent, the process comprising:		
3	contacting alpha olefin monomers with at least one catalyst in a reactant mixture,		
4		wherein the reactant mixture includes at least one alpha olefin monomer	
5	partitioning agent; and		
6	polymerizing the alpha olefin monomers, wherein during the polymerization at leas		
7		a portion of the alpha olefin monomer polymerize in the reactant mixture to	
8		provide a polyalphaolefin.	
	2.	The process of claim 1, wherein the at least one catalyst is a transition metal catalyst.	
	3.	The process of claim 2, wherein the transition metal catalyst is a Ziegler-Natta catalyst.	
	4.	The process of claim 3, wherein the Ziegler-Natta catalyst is titanium trichloride.	
1	5.	The process of claim 4, wherein the at least one alpha olefin monomer partitioning agent is	
selected from the group consisting of C_{20} - C_{60} alpha olefin monomers.		ted from the group consisting of C_{20} - C_{60} alpha olefin monomers.	
1	6.	The process of claim 4, wherein the at least one alpha olefin monomer partitioning agent is	
2	at least one C_{30} alpha olefin monomer.		
	7.	The process of claim 1, wherein the reactant mixture includes at least one co-catalyst.	
1	8.	The process of claim 7, wherein the at least one co-catalyst is selected from the group	
2	consi	consisting of alkylaluminoxanes, halohydrocarbons, diethylaluminum chloride, and	
3	dibuty	dibutylaluminum chloride.	

HOU:586817.1 11

- 1 9. The process of claim 1, wherein the at least one alpha olefin monomer partitioning agent is
- selected from the group consisting of C_{20} C_{60} alpha olefin monomers.
- 1 10. The process of claim 1, wherein the at least one alpha olefin monomer partitioning agent is
- 2 at least one C_{30} alpha olefin monomer.
- 1 11. A drag reducing agent comprising a polyalphaolefin and at least one alpha olefin monomer
- 2 partitioning agent.
- 1 12. The process of claim 11, wherein the at least one alpha olefin monomer partitioning agent
- 2 is selected from the group consisting of C_{20} C_{60} alpha olefin monomers.
- 1 13. The process of claim 11, wherein the at least one alpha olefin monomer partitioning agent
- 2 is at least one C_{30} alpha olefin monomer.
- 1 14. A drag reducing agent comprising a polyalphaolefin and at least one alpha olefin monomer
- 2 partitioning agent formed by contacting alpha olefin monomers with at least one catalyst in a reactant
- 3 mixture having at least one alpha olefin monomer partitioning agent, and polymerizing the alpha
- 4 olefin monomers, wherein during the polymerization at least a portion of the alpha olefin monomers
- 5 polymerize in the reactant mixture to provide a polyalphaolefin.
- 1 15. The process of claim 14, wherein the at least one alpha olefin monomer partitioning agent
- is selected from the group consisting of C_{20} C_{60} alpha olefin monomers.
- 1 16. The process of claim 14, wherein the at least one alpha olefin monomer partitioning agent
- 2 is at least one C₃₀ alpha olefin monomer.

- 1 17. A drag reducing agent comprising a polyalphaolefin and at least one alpha olefin monomer partitioning agent formed by contacting alpha olefin monomers with at least one catalyst in a reactant mixture, polymerizing the alpha olefin monomers, wherein during the polymerization at least a portion of the alpha olefin monomers polymerize in the reactant mixture to provide a polyalphaolefin, and mixing the polyalphaolefin with at least one alpha olefin monomer partitioning agent.
- 1 18. The process of claim 17, wherein the at least one alpha olefin monomer partitioning agent is selected from the group consisting of C₂₀ C₆₀ alpha olefin monomers.
- 1 19. The process of claim 17, wherein the at least one alpha olefin monomer partitioning agent is at least one C₃₀ alpha olefin monomer.
- 1 20. A process for reducing drag in a conduit, comprising: 2 forming a drag reducing agent comprising a polyalphaolefin and at least one alpha olefin monomer partitioning agent, wherein the drag reducing agent is formed by contacting 3 4 alpha olefin monomers with at least one catalyst in a reactant mixture having at least 5 one alpha olefin monomer partitioning agent, and polymerizing the alpha olefin 6 monomers, wherein during the polymerization at least a portion of the alpha olefin 7 monomers polymerize in the reactant mixture to provide a polyalphaolefin; and 8 introducing the drag reducing agent into the conduit.
- 1 21. The process of claim 20, wherein the at least one alpha olefin monomer partitioning agent is selected from the group consisting of C₂₀ C₆₀ alpha olefin monomers.
- 1 22. The process of claim 20, wherein the at least one alpha olefin monomer partitioning agent 2 is at least one C₃₀ alpha olefin monomer.
 - 23. A process for reducing drag in a conduit, comprising:

HOU:586817.1 13

1

2	forming a drag reducing agent comprising a polyalphaolefin and at least one alpha
3	olefin monomer partitioning agent, wherein the drag reducing agent is formed
4	by contacting alpha olefin monomers with at least one catalyst in a reactant
5	mixture, polymerizing the alpha olefin monomers, wherein during the
6	polymerization at least a portion of the alpha olefin monomers polymerize in
7	the reactant mixture to provide a polyalphaolefin, and mixing the
8	polyalphaolefin with at least one alpha olefin monomer partitioning agent;
9	and
10	introducing the drag reducing agent into the conduit.

- 1 24. The process of claim 23, wherein the at least one alpha olefin monomer partitioning agent is selected from the group consisting of C_{20} - C_{60} alpha olefin monomers. 2
- The process of claim 23, wherein the at least one alpha olefin monomer partitioning agent 1 25. 2 is at least one C₃₀ alpha olefin monomer.
- 1 26. A process for forming a drag reducing agent comprising a polyalphaolefin and at least one 2 alpha olefin monomer partitioning agent, the process comprising:
 - contacting alpha olefin monomers with at least one catalyst in a reactant mixture; polymerizing the alpha-olefin monomers, wherein during the polymerization at least a portion of the alpha olefin monomers polymerize in the reactant mixture to provide a polyalphaolefin; and
 - mixing the polyalphaolefin with at least one alpha olefin partitioning agent.
- 1 27. The process of claim 26, wherein the at least one alpha olefin partitioning agent is selected 2 from the group consisting of C_{20} - C_{60} alpha olefin monomers.
- 1 The process of claim 26, wherein the at least one alpha olefin monomer partitioning agent 28. 2 is at least one C₃₀ alpha olefin monomer.

14 HOU:586817.1

3

4

5

6

7

- 1 29. The process of claim 26, further comprising the step of cryogrinding the polyalphaolefin and
- 2 at least one alpha olefin partitioning agent.
- 1 30. The process of claim 29, wherein the at least one alpha olefin monomer partitioning agent
- 2 is selected from the group consisting of C_{20} C_{60} alpha olefin monomers.
- 1 31. The process of claim 29, wherein the at least one alpha olefin monomer partitioning agent
- 2 is at least one C_{30} alpha olefin monomer.